Jeremy Shaw

Contact me via Linkedin!
linkedin.com/in/jeremyshaw-one

California State University, Sacramento; Cumulative GPA 3.41

AUGUST 2017 - MAY 2020, B.S. Computer Engineering

Clubs and Extracurriculars: Tau Beta Pi, IEEE, ACM, (IPC)

EXPERIENCE

Caltrans, Sacramento, CA — *Engineering Intern*

JULY 2018 - JANUARY 2020

- Editing content for training purposes, allowing for in-class content to be digitized and delivered statewide
- Content Editor for Caltrans internal website (Onramp), helping support the mission of my office (Professional Development) by creating greater internal awareness of our services.
- Style Editor for WorkFlow Task Manual (w.i.p; project development procedures manual), updating an ancient, central document, allowing for greater, statewide collaborative efforts to update the guide to modern standards

Raisecom USA, Clearwater, FL — *IT & Inventory*

FEBRUARY 2010 - JANUARY 2015

- Developed & maintained web presence (CMS), email systems, IT SW/HW support, procurement, etc for employees across CA, FL, & TX, allowing effective teamwork across 3 time zones.
- Organized daily shipping and inventory for CA warehouse & inventory reconciliation with FL warehouse, creating a culture of rapid shipping fulfillment
- Coordinated and documented end-of-year inventory counts
- Lead a transition from Google Apps to Office 365 to implement process control
- Supported company at various conferences (CeBit, Cablecom, Optical Fiber Conference - OFC, LinuxWorld)

PROJECTS

Elderly Assistance Robot, Senior Design, CSUS

Fall 2019 - PRESENT

- Worked as a team of 4 undergraduates to specify, design, and build a semi-autonomous robot for the purpose of assisting elderly and limited mobility persons.
- Used CAD, physical buildout, and systems design to rapidly refactor the robot into an optimal design

Skills used: Git, C/Wiring, Python, team leadership, team dynamics, soldering, systems development

Micro-Greenhouse CpE185, CSUS

Spring 2018, github.com/jeremyshaw/microgreenhouse/

- Worked as a group of 4 undergraduates to create an automated Micro-Greenhouse to sustain plant life
- Created interfaces for sensors to monitor plant health
- Created framework for I2C master Raspberry Pi and I2C slave Arduinos
- Utilized Pi as web GUI, 3 microcontrollers to interface with devices and sensors

Skills used: Git, C/Wiring, Python, soldering, electrical schematic/layout design, I2C, debugging and integration of independently developed systems

LANGUAGES/FRAMEWORKS

System Languages:
Python, C,, VHDL, Verilog, X86 ASM, SQL, Java, HTML, JavaScript, CSS

Frameworks and Libraries:
Pandas, NumPy

IDE/ISE/CAD:
Vivado, Quartus, (Altium Designer), OrCAD, FreeCAD + Cura, Visual Studio, vim, Jupyter Notebook

Spoken Languages:
English, Mandarin

SKILLS

System programming (C, x86 ASM)

HDL (Verilog, VHDL)

Basic IC layout (Cadence Virtuoso) and simulation/verification

Network analysis (Wireshark, python sockets)

Git Version Control

CAD & 3D Printing (FreeCAD + Cura) for self designed projects

Databases (mySQL)

Self-Documented Code

Software Debugging

Microsoft Office (Excel, PowerPoint, Outlook, Word)

Technical writing (manuals)

Time-Management

Computer Networks

Media Editing (Photoshop, Captivate, Resolve, Premiere, Acrobat)